(3) If the operating conditions of a valve are changed so as to require a new spring under paragraph (f)(2) of this section for a different pressure, the valve shall be adjusted by the manufacturer or his authorized representative.

(g) The design and construction of safety relief valves shall permit easy access for inspection and repair.

(h) Safety relief valves shall be tapped for not less than ¼ inch pipe size drain at the lowest practicable point where liquid can collect.

[CGFR 52–43, 17 FR 9540, Oct. 18, 1952]

§ 162.018–5 Blow-down adjustment and popping tolerance.

(a) Safety relief valves shall be so constructed that no shocks detrimental to the valve or pressure vessel are produced when lifting or closing. Safety relief valves shall be designed to open sharply and reach full lift and capacity at the maximum accumulation. Valve closure after popping shall be clean and sharp. Safety relief valves shall operate satisfactorily without wiredrawing and chattering at any stage of operation.

(b) Safety relief valves having adjustible blow-down construction shall be adjusted to close after blowing down not more than 5 percent of the set pressure. Valves shall be adjusted to pop within a tolerance of plus or minus 3 percent of the set pressure, except that for pressures of 70 p.s.i. and below, the tolerance in popping pressure shall not vary more than plus or minus 2 p.s.i.

[CGFR 52–43, 17 FR 9541, Oct. 18, 1952]

§ 162.018–6 Marking.

(a) Each safety relief valve shall be plainly marked by the manufacturer with the required data in such a way that the marking will not be obliterated in service. The marking may be stamped on the valve or stamped or cast on a plate securely fastened to the valve. The marking shall include the following data:

(1) The name or identifying trademark of the manufacturer.

(2) Manufacturer's design or type number.

(3) Size ____ inches. (The pipe size of the valve inlet).

(4) Set pressure ____ p.s.i.

(5) Rated capacity ____ cubic feet per minute of the gas or vapor (at 60 °F. and 14.7 p.s.i.a.).

(6) Coast Guard approval number. The minimum wording for showing approval shall be ''USCG 162.018/* *'' or ''USCG 162.018–* *''.

(b) [Reserved]

[CGFR 68–82, 33 FR 18908, Dec. 18, 1968, as amended by USCG 2001–10224, 66 FR 48620, Sept. 21, 2001]

§ 162.018–7 Flow rating tests.

(a) Flow rating of valves shall be conducted in accordance with UG–131 of section VIII of the ASME Code, S–1.2.5.2 of the Compressed Gas Association Standards, or other procedure approved by the Commanding Officer, USCG Marine Safety Center.

(b) [Reserved]

[CGFR 68–82, 33 FR 18908, Dec. 18, 1968, as amended by USCG 2001–10224, 66 FR 48620, Sept. 21, 2001]

§ 162.018–8 Procedure for approval.

(a) *General.* Safety relief valves for use on pressure vessels containing liquefied compressed gases must be approved by the Commanding Officer, U.S. Coast Guard Marine Safety Center. Applications for approval may be delivered by visitors to the Commanding Officer, U.S. Coast Guard Marine Safety Center, 1900 Half Street, SW., Suite 1000, Room 525, Washington, DC 20024, or transmitted by mail to: Commanding Officer, U.S. Coast Guard Marine Safety Center, JR10–0525, 2100 2nd Street, SW., Washington, DC 20593, in a written or electronic format. Information for submitting the VSP electronically can be found at *http://www.uscg.mil/HQ/MSC.*

(b) *Plan submittal.* Manufacturers desiring to secure approval of a new design or type of safety relief valve shall submit in quadruplicate detail drawings showing the valve construction, and material specifications of the component parts. In the event the design is changed, amended drawings shall be

* *Number to be assigned by the Commanding Officer, USCG Marine Safety Center.